

SEQUENCE LISTING

<110> Hamawy, Majed M.

<120> Marker Proteins For Diagnosing Smooth Muscle Cell Abnormalities

<130> 960296.99187

<140>

<141>

<150> 60/450,515

<151> 2003-02-27

<160> 2

<170> PatentIn Ver. 2.0

<210> 1

<211> 472

<212> PRT

<213> Homo sapiens

<400> 1

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Met Ala Thr Lys Cys Gly Asn Cys Gly Pro Gly Tyr Ser Thr Pro Leu
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Glu Ala Met Lys Gly Pro Arg Glu Glu Ile Val Tyr Leu Pro Cys Ile
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Tyr Arg Asn Thr Gly Thr Glu Ala Pro Asp Tyr Leu Ala Thr Val Asp
      35                   40                   45

Val Asp Pro Lys Ser Pro Gln Tyr Cys Gln Val Ile His Arg Leu Pro
      50                   55                   60

Met Pro Asn Leu Lys Asp Glu Leu His His Ser Gly Trp Asn Thr Cys
      65                   70                   75                   80

Ser Ser Cys Phe Gly Asp Ser Thr Lys Ser Arg Thr Lys Leu Val Leu
      85                   90                   95

Pro Ser Leu Ile Ser Ser Arg Ile Tyr Val Val Asp Val Gly Ser Glu
      100                   105                   110

Pro Arg Ala Pro Lys Leu His Lys Val Ile Glu Pro Lys Asp Ile His
      115                   120                   125

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Ala	Lys	Cys	Glu	Leu	Ala	Phe	Leu	His	Thr	Ser	His	Cys	Leu	Ala	Ser	130	135	140	
Gly	Glu	Val	Met	Ile	Ser	Ser	Leu	Gly	Asp	Val	Lys	Gly	Asn	Gly	Lys	145	150	155	160
Gly	Gly	Phe	Val	Leu	Leu	Asp	Gly	Glu	Thr	Phe	Glu	Val	Lys	Gly	Thr	165	170	175	
Trp	Glu	Arg	Pro	Gly	Gly	Ala	Ala	Pro	Leu	Gly	Tyr	Asp	Phe	Trp	Tyr	180	185	190	
Gln	Pro	Arg	His	Asn	Val	Met	Ile	Ser	Thr	Glu	Trp	Ala	Ala	Pro	Asn	195	200	205	
Val	Leu	Arg	Asp	Gly	Phe	Asn	Pro	Ala	Asp	Val	Glu	Ala	Gly	Leu	Tyr	210	215	220	
Gly	Ser	His	Leu	Tyr	Val	Trp	Asp	Trp	Gln	Arg	His	Glu	Ile	Val	Gln	225	230	235	240
Thr	Leu	Ser	Leu	Lys	Asp	Gly	Leu	Ile	Pro	Leu	Glu	Ile	Arg	Phe	Leu	245	250	255	
His	Asn	Pro	Asp	Ala	Ala	Gln	Gly	Phe	Val	Gly	Cys	Ala	Leu	Ser	Ser	260	265	270	
Thr	Ile	Gln	Arg	Phe	Tyr	Lys	Asn	Glu	Gly	Gly	Thr	Trp	Ser	Val	Glu	275	280	285	
Lys	Val	Ile	Gln	Val	Pro	Pro	Lys	Lys	Val	Lys	Gly	Trp	Leu	Leu	Pro	290	295	300	
Glu	Met	Pro	Gly	Leu	Ile	Thr	Asp	Ile	Leu	Leu	Ser	Leu	Asp	Asp	Arg	305	310	315	320
Phe	Leu	Tyr	Phe	Ser	Asn	Trp	Leu	His	Gly	Asp	Leu	Arg	Gln	Tyr	Asp	325	330	335	
Ile	Ser	Asp	Pro	Gln	Arg	Pro	Arg	Leu	Thr	Gly	Gln	Leu	Phe	Leu	Gly	340	345	350	
Gly	Ser	Ile	Val	Lys	Gly	Gly	Pro	Val	Gln	Val	Leu	Glu	Asp	Glu	Glu	355	360	365	
Leu	Lys	Ser	Gln	Pro	Glu	Pro	Leu	Val	Val	Lys	Gly	Lys	Arg	Val	Ala	370	375	380	

Gly Gly Pro Gln Met Ile Gln Leu Ser Leu Asp Gly Lys Arg Leu Tyr
 385 390 395 400

Ile Thr Thr Ser Leu Tyr Ser Ala Trp Asp Lys Gln Phe Tyr Pro Asp
 405 410 415

Leu Ile Arg Glu Gly Ser Val Met Leu Gln Val Asp Val Asp Thr Val
 420 425 430

Lys Gly Gly Leu Lys Leu Asn Pro Asn Phe Leu Val Asp Phe Gly Lys
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Glu Pro Leu Gly Pro Ala Leu Ala His Glu Leu Arg Tyr Pro Gly Gly
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Asp Cys Ser Ser Asp Ile Trp Ile
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<211> 472

<212> PRT

<213> Rattus norvegicus

<400> 2

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Glu Ala Met Lys Gly Pro Arg Glu Glu Ile Val Tyr Leu Pro Cys Ile
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Tyr Arg Asn Thr Gly Ile Glu Ala Pro Asp Tyr Leu Ala Thr Val Asp
 35 40 45

Val Asp Pro Lys Ser Pro His Tyr Ser Gln Val Ile His Arg Leu Pro
 50 55 60

Met Pro His Leu Lys Asp Glu Leu His His Ser Gly Trp Asn Thr Cys
 65 70 75 80

Ser Ser Cys Phe Gly Asp Ser Thr Lys Ser Arg Asp Lys Leu Ile Leu
 85 90 95

Pro Ser Ile Ile Ser Ser Arg Ile Tyr Val Val Asp Val Gly Ser Glu
 100 105 110

Pro Arg Ala Pro Lys Leu His Lys Val Ile Glu Pro Asn Glu Ile His

115							120								125
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145					150					155					160
Gly	Gly	Phe	Val	Leu	Leu	Asp	Gly	Glu	Thr	Phe	Glu	Val	Lys	Gly	Thr
				165					170					175	
Trp	Glu	Lys	Pro	Gly	Gly	Glu	Ala	Pro	Met	Gly	Tyr	Asp	Phe	Trp	Tyr
			180					185					190		
Gln	Pro	Arg	His	Asn	Ile	Met	Val	Ser	Thr	Glu	Trp	Ala	Ala	Pro	Asn
		195					200					205			
Val	Phe	Lys	Asp	Gly	Phe	Asn	Pro	Ala	His	Val	Glu	Ala	Gly	Leu	Tyr
	210					215					220				
Gly	Ser	His	Ile	His	Val	Trp	Asp	Trp	Gln	Arg	His	Glu	Ile	Ile	Gln
225					230					235					240
Thr	Leu	Gln	Met	Lys	Asp	Gly	Leu	Ile	Pro	Leu	Glu	Ile	Arg	Phe	Leu
				245					250					255	
His	Asp	Pro	Asp	Ala	Thr	Gln	Gly	Phe	Val	Gly	Cys	Ala	Leu	Ser	Ser
			260					265					270		
Asn	Ile	Gln	Arg	Phe	Tyr	Lys	Asn	Glu	Gly	Gly	Thr	Trp	Ser	Val	Glu
		275					280					285			
Lys	Val	Ile	Gln	Val	Pro	Ser	Lys	Lys	Val	Lys	Gly	Trp	Met	Leu	Pro
	290					295					300				
Glu	Met	Pro	Gly	Leu	Ile	Thr	Asp	Ile	Leu	Leu	Ser	Leu	Asp	Asp	Arg
305				310						315					320
Phe	Leu	Tyr	Phe	Ser	Asn	Trp	Leu	His	Gly	Asp	Ile	Arg	Gln	Tyr	Asp
				325					330					335	
Ile	Ser	Asn	Pro	Lys	Lys	Pro	Arg	Leu	Thr	Gly	Gln	Ile	Phe	Leu	Gly
		340						345					350		
Gly	Ser	Ile	Val	Lys	Gly	Gly	Ser	Val	Gln	Val	Leu	Glu	Asp	Gln	Glu
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Leu	Thr	Cys	Gln	Pro	Glu	Pro	Leu	Val	Val	Lys	Gly	Lys	Arg	Val	Pro

370							375										380
Gly	Gly	Pro	Gln	Met	Ile	Gln	Leu	Ser	Leu	Asp	Gly	Lys	Arg	Leu	Tyr		
385						390				395						400	
Val	Thr	Thr	Ser	Leu	Tyr	Ser	Ala	Trp	Asp	Lys	Gln	Phe	Tyr	Pro	Asn		
				405					410						415		
Leu	Ile	Arg	Glu	Gly	Ser	Val	Met	Leu	Gln	Ile	Asp	Val	Asp	Thr	Ala		
			420					425					430				
Asn	Gly	Gly	Leu	Lys	Leu	Asn	Pro	Asn	Phe	Leu	Val	Asp	Phe	Gly	Lys		
		435					440					445					
Glu	Pro	Leu	Gly	Pro	Ala	Leu	Ala	His	Glu	Leu	Arg	Tyr	Pro	Gly	Gly		
	450					455					460						
Asp	Cys	Ser	Ser	Asp	Ile	Trp	Ile										
465					470												